

## Columbia Gas SCO Supplier Training - Pipeline Capacity Release

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## **Agenda**

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#### **Terms and Definitions**

#### Terms used herein

#### **Pipeline Scheduling Point (PSP)**

A single delivery point or set of delivery points grouped or designated by an upstream pipeline for purposes of scheduling gas supplies for delivery by such upstream pipeline

#### **Demand Curve**

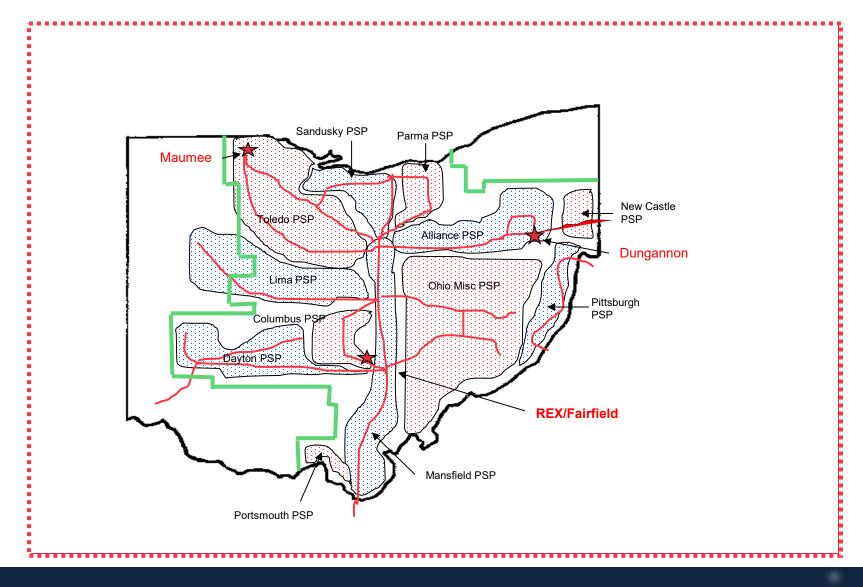
An estimate of CHOICE or SCO customer demand provided monthly by Columbia. Establishes the CHOICE/SCO supplier's supply delivery obligation to Columbia by PSP (at the city gate)

#### **Supply Curve**

Represents the requirement for supplies at non-TCO Points of Delivery, or supply requirements of a pipeline at an upstream Point of Delivery with another pipeline



## Columbia Gas of Ohio - System Map





## **Delivery Obligation: Demand and Supply Curves**

#### **Demand Curves**

Defines the total confirmed supply that a supplier must deliver to Columbia each day by PSP

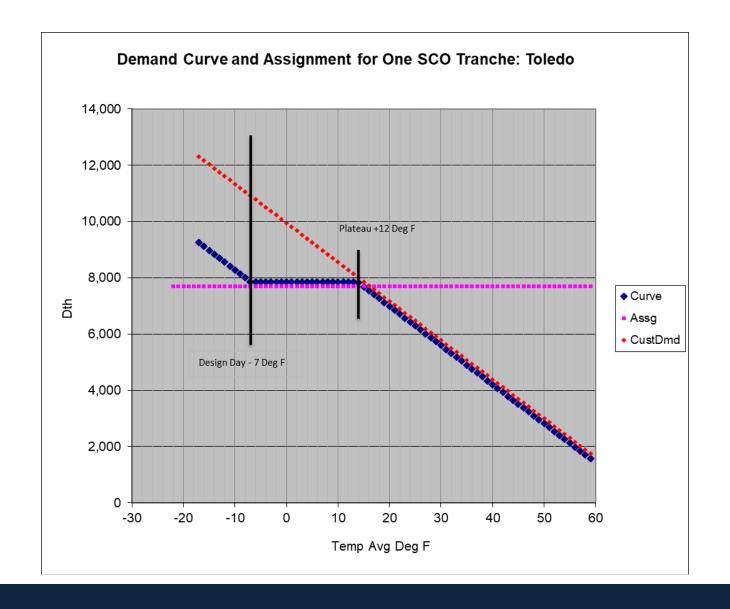
- For the months of October through April, the delivery requirements change with temperature. The confirmed deliveries must match the specified quantity at the actual temperature posted on Aviator at the end of the day for each PSP. The forecasted temperature may be used as a guideline.
- For the months of May though September, the Demand Curves specify a constant volume each day of the month. Thus, there is no matching to actual temperatures.
- Demand Curves are Updated Monthly

Failure to deliver confirmed volumes equal to Demand Curve specified requirements will result in the incurrence of a Non-Compliance Charge on the difference between the confirmed volume and required deliveries

- Non OFO/OMO days = higher of \$10/Dth or 150% of the TCO Daily Index
- OFO/OMO days = higher of \$30/Dth or 150% of the TCO Daily Index
- Applicable pipeline penalties are additive



## **Delivery Obligation – Demand Curve Example**





## **Delivery Obligation: Demand and Supply Curves**

#### **Supply Curves**

- Establishes the delivery obligations/limitations at certain non-TCO Points of Delivery (POD) based on temperature based operational requirements.
- Supply Curves will be provided for deliveries from PEPL to Columbia at Maumee and from Tennessee to TCO at Dungannon. In addition, there will be a REX/Fairfield requirement which is triggered at the Demand Curve "Plateau"
- Supply Curve delivery requirements will be determined based on the Forecasted Temperature for the PSP in which the Supply Curve POD is located. There is no actual temperature requirement for non-TCO PODs.
- Failure to deliver volumes as specified shall result in the assessment of the same non-compliance charges that apply to Demand Curves.



## **Delivery Obligation: Demand and Supply Curves**

(continued)

#### **Supply Curves**

#### Maumee Gate Supply Curve: delivery volume to Maumee must match the curve

- Deliveries from PEPL to Columbia at the Maumee Gate are required operationally during the winter months
- Confirmed deliveries at the Maumee Gate are required to match the Supply Curve requirements at the Forecasted Temperature
- No Maumee Gate deliveries are allowed during the summer months

#### **Dungannon Supply Curves: minimum required volume**

- Deliveries from Tennessee to TCO at Dungannon are required operationally at colder temperatures for TCO to meet city gate obligations downstream of Dungannon in the Alliance PSP. Deliveries at Dungannon are not applied directly to any Demand Curve as they must be scheduled on TCO for delivery to Columbia.
- Deliveries from Tennessee to TCO are required beginning at Forecasted Temperatures of approximately 42°F

## REX/Fairfield Supply Requirement: REX supply is required to the TCO/REX interconnect at Demand Curve "Plateau"

- REX supply must be scheduled via TCO/REX Fairfield interconnect to Columbus 23-5 at temperatures (and colder) where the Demand curve turns flat (in the 12 -15 degree range)
- At temperatures warmer than plateau, suppliers may source the REX and TCO Fairfield capacity as they see fit, subject to pipeline constraints.



## Capacity Portfolio and Required Assignment

#### **Capacity Allocation Process**

#### Capacity is Allocated/Assigned on "Level Playing Field" Basis

- Equal percentage levels of storage and FTS assigned to each PSP and equal percentage level of Columbia provided Peaking Service provided in each PSP
- Percentages are identical for CHOICE and SCO

Columbia holds certain discounted contracts on NEXUS, TCO, PEPL and Trunkline where the utilization of unauthorized alternate points may cause Columbia to incur additional costs. Any incremental costs incurred by Columbia as a result of a supplier (or another party to which a supplier has released the Columbia assigned capacity) utilizing an unauthorized alternate point shall be paid by the supplier.

If an SCO supplier is also a CHOICE supplier, the Demand Curves, supply curves and the capacity release transactions will be combined where applicable.



## Capacity Portfolio and Required Assignment

(continued)

#### **Capacity Allocation Process**

## Allocation steps followed by Columbia in determining the amount of assets to be assigned by PSP are as follows:

- For the 2024-2025 period, Columbia assigned capacity will equate to approximately 100% of the supplier's peak day demand.
- Columbia will retain capacity equivalent to approximately 22.1% of peak day demand to provide Non-Temperature Balancing and Peaking Services for suppliers
- Columbia will assign approximately 51.5% of the peak day demand as storage.
  - For the PSP that includes the Maumee Gate the percentage of storage assignment shall include PEPL FS and TCO FSS.
- Columbia will assign approximately 18% of the peak day demand as FTS
  - PEPL FTS will be included in the FTS assigned to the Toledo PSP
  - For the Alliance PSP, the TCO FTS assignment shall include Tennessee FT-A as the upstream pipeline
  - TCO FTS will have certain NEXUS, REX and LXP capacities assigned



## **Capacity Allocation Example for One SCO Tranche**

		TCO FSS	TCO FSS	TCO SST	TCO SST	Overall FT %	TCO FTS	TCO FTS	TCO FTS	NEXUS FT	TCO FTS		TCO FTS	Tenn FT-A	TCO FTS
		MDQ	SCQ	Oct-Mar	Apr-Sept	18.48%	Leach	Leach-85154	Sandusky Cnty	TETCO 73714	Sandusky		Broad Run	Station 219	Dungannon
	Used for	3045	3045	3044	3044	10.4070	80152	45538	oundusky only	860005	174457		82544	63440	82545
	Allocation	1,445,102	80,441,913	1,445,102	722,551	Leach %	153,186	2.66%	Percentage	50,000	50,000		38,974	30,000	29,231
	raiocation	51.16%	00,441,010	1,440,102	722,001	Eddolf 70	100,100	12.85% 2.97%	reroonlage	50,000	30,000		18.48%	50,000	18.48%
22 PORTSMOUTH	660	338	18,815	338	169	0.00%	o		0.00%	0	0		122		
23-1 TOLEDO	10,902	5,253	292,409	5,253	2,627	3.43%	373		0.95%	104	104				
23-3 LIMA	1,888	966	53,773	966	483	13.13%	248		3.21%	61	61				
23-4 ALLIANCE	2,067	1,057	58,838	1,057	529	0.00%	o		0.00%	0	0			392	382
23-5 COLUMBUS	17,124	8,760	487,627	8,760	4,380		756	455	3.17%	543	543	8			
23-6 DAYTON	5,810	2,972	165,437	2,972	· ·		154	746	2.97%	173	173				
23-8 MANSFIELD	3,584	1,834	102,090	1,834	917	12.97%	465		3.37%	121	121				
23-9 OHIO MISC	2,888	1,477	82,218	1,477	739	8.45%	307	86	2.72%	79	79				
23N-2 PARMA	9,215	4,714	262,406	4,714	2,357		1,209	- 1	3.23%	297	297				
23N-7 SANDUSKY	3,390	1,734	96,523	1,734	867	12.89%	437		3.45%	117	117				
24-35 PITTSBURGH	1,323	677	37,685	677	339	18.48%	244		0.00%	0	0				
24-39 NEWCASTLE	18	9	501	9	5	18.48%	3		0.00%	0	0				
TOTAL	58,869	29,791	1,658,322	29,791	14,898		4,196	1,287	0.0070	1,495	1,495	1	122	392	382
Monthly Demand Chrg		\$2.4810	\$0.0447	\$9.4730	\$0.0000		\$9.5920	\$3.9630		\$23.2500	\$9.5920		\$9.5920		\$9.5920
Monthly Demand		\$73.911	\$74.127	\$282,210	\$0		\$40,248	\$5,100		\$34,759	\$14,340	]	\$1.170	\$1.786	\$3,664
Maximum tariff rates can		TCO FTS	TCO FTS-LXP	TCOFTS	REX FTS	TCO FTS	PEPL FS	PEPL FS	PEPL EFT-Stor	PEPL EFT-Stor	PEPL	Trunkline FT	PEPL EFT		
		Crawford Agg	Eureka	Crawford Agg	REX Bear Wallow	COL/REX Fairfield	MDQ	SCQ	Nov-Mar	Apr-Oct	EFT	Nov-Mar	Nov-Mar		
		- 55	198766	201876	950015	200905	18601	18601	18606	18606	18605	18122	18604		
		Percentage	35,000	35,000	35,000	35,000	26,667	2,000,000	26,338	10,244	15,000	29,223	28,662		
		,		,		6.11%				· ·	4.11%	]	7.85%		
22 PORTSMOUTH		0.00%	0	0											
23-1 TOLEDO		2.13%	233	233			328	24,600	324	4 126	448	873	856		
23-3 LIMA		2.13%	40	40											
23-4 ALLIANCE		0.00%	0	0											
23-5 COLUMBUS		2.13%	365	365	1045	1045									
23-6 DAYTON		0.00%	0	0											
23-8 MANSFIELD		2.13%	76	76											
23-9 OHIO MISC		2.13%	62	62											
23N-2 PARMA		2.13%	197	197											
23N-7 SANDUSKY		2.13%	72	72											
24-35 PITTSBURGH		0.00%	0	o											
24-39 NEWCASTLE		0.00%	0	0						, l		<del>                                     </del>			
TOTAL		I	1,045	1,045	1,045	1,045	328	24,600	324		448		856		
Monthly Demand Chrg		I	\$10.2793	\$9.5920	\$9.1250	\$9.5920	\$4.1762	\$0.0428	\$4.264	1	\$21.8544		\$2.4955		
Monthly Demand			\$10,742	\$10,024	\$9,536	\$10,024	\$1,370	\$1,054	\$1,382	2 \$0	\$9,791	\$3,589	\$2,136		



## **Capacity Allocation Example for One SCO Tranche**

		Total	Total							
	Total	Storage	Transport	Total				Local+Pk	Total	Prov by
	Demand	City Gate	City Gate	Released	Local	Retained	Peaking	by COH	СОН	Supplier
22 PORTSMOUTH	660	338	122	460	12	43	146	201	661	-1
23-1 TOLEDO	10,902	5,577	2,014	7,591	191	708	2,412	3,311	10,902	0
23-3 LIMA	1,888	966	349	1,315	33	123	418	574	1,889	-1
23-4 ALLIANCE	2,067	1,057	382	1,439	36	134	457	627	2,066	1
23-5 COLUMBUS	17,124	8,760	3,164	11,924	301	1112	3,788	5,201	17,125	-1
23-6 DAYTON	5,810	2,972	1,073	4,045	102	377	1,285	1,764	5,809	1
23-8 MANSFIELD	3,584	1,834	662	2,496	63	233	793	1,089	3,585	-1
23-9 OHIO MISC	2,888	1,477	534	2,011	51	187	639	877	2,888	0
23N-2 PARMA	9,215	4,714	1,703	6,417	162	598	2,038	2,798	9,215	0
23N-7 SANDUSKY	3,390	1,734	626	2,360	59	220	750	1,029	3,389	1
24-35 PITTSBURGH	1,323	677	244	921	23	86	293	402	1,323	0
24-39 NEWCASTLE	18	9	3	12	0	1	4	5	17	1
TOTAL	58,869	30,115	10,876	40,991	1,033	3,822	13,023	17,878	58,869	0
		51.16%	18.47%	69.63%	1.75%	6.49%	22.12%	30.37%	100.00%	0.00%



## **COH SCO Program**

#### Reminders

- Supplier must be set up on the various pipeline Electronic Bulletin Board as well as the AVIATOR system.
- Supplier must also have proper credit and electronic contracting agreements in place with the pipelines



## **Storage Management**

Based on Columbia's historical planning practices the following minimum storage inventory levels are recommended:

Nov. 1	98%
Feb. 15	30%
Mar. 5	20%
Mar. 22	10%
Apr. 1	2%

All suppliers have the sole responsibility to fill and manage the storage inventories of the TCO FSS and PEPL FS capacity assigned to them on a monthly basis

For the months of October through April, suppliers shall manage natural gas supply nominations and deliveries to Columbia to match deliveries as specified by their individual Demand Curves at the actual temperatures posted by Columbia through utilization of TCO FSS and SST capacity. Such utilization shall generally consist of adjustments to their FSS/SST nomination at the end of the gas day such that all confirmed supplies delivered to Columbia (including the FSS/SST nomination adjustment) in each PSP match the specified Demand Curve volumes at the actual temperature as posted by Columbia.



## **Storage Management**

(continued)

#### **Storage Management**

- Each CHOICE and SCO supplier is solely responsible for ensuring that they have adequate injection and/or withdrawal rights to match their Demand Curve obligations
- For CHOICE suppliers, no inventory transfers are provided by COH, regardless of the month of assignment. Only empty storage is assigned by COH. CHOICE suppliers must work with other storage holders on the pipelines to acquire inventory as needed.
- Any SCO supplier not continuing, or continuing but with a fewer number of tranches, as a supplier for the next SCO Period must offer for sale to the succeeding SCO supplier(s) (and the replacement SCO supplier must purchase) an amount of storage inventory equal to 2% of the SCQ initially assigned per tranche for the next SCO Period.



## **Transit Point Scheduling**

#### **Transit Point Scheduling**

- Columbia may require scheduling to the Transit Point (COHTrans) for TCO delivered volumes
- Capacity release assignments will still be made to the TCO Primary PSPs
- Supplies must be scheduled to Transit Points on a Secondary basis in accordance with Columbia's OFO/OMO orders.
- Suppliers receives full credit for gas scheduled to the Transit Point as if it is the city gate
- These orders generally are in response to the Storage Bounce OFOs on TCO
- Supplier must also observe pipeline constraints on TCO when flowing on a Secondary path to the Transit Points



## **Ohio (Local) Production**

#### **Ohio (Local) Production**

- Columbia purchases certain Ohio local gas production in small quantities or to satisfy location-specific customer supply requirements that cannot be served via other means.
- By their nature and/or contractual limitations, these supplies do not lend themselves to assignment to multiple suppliers.
- Demand curves are adjusted to account for flow from Ohio local production.
- The purchase price for the Local Gas Purchase Requirement shall be the TCO Monthly Index plus a fixed dollar amount per Mcf ("Local Gas Purchase Price") and will be charged to supplier on the monthly invoice.



## Thank you



# DO YOU HAVE QUESTIONS?

Thank you for reviewing the Columbia Gas Supplier Training! Please contact your assigned specialist if you have any questions on this presentation.

They will be happy to assist!

In addition, you can also email the CHOICE team at choice@nisource.com



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